

### *Abstract*

One aspect of the present invention relates to heterocyclic compounds comprising a sulfonamide moiety. A second aspect of the present invention relates to the use of the heterocyclic compounds comprising a sulfonamide moiety to treat diseases, afflictions or maladies caused at least in part by abnormal activity of one or more GPCRs or ligand-gated ion channels. An additional aspect of the present invention relates to the synthesis of combinatorial libraries of the heterocyclic compounds comprising a sulfonamide moiety, and the screening of those libraries for biological activity, e.g., in animal models of psychosis.